## **ABSTRACT**

A water treatment system for removing hard ions from source water. The water treatment system is of the type that includes a pair of ion-exchange water softener tanks connectable to a source of pressurized water and with a water system to supply softened water to the water system, the tanks each being capable of regeneration by flushing with a regeneration solution to replenish depleted ions. A process for preventing system failure due to salt crystallization includes flowing water during brine replenishment from a second nozzle and a first nozzle at a defined ratio. The first nozzle diluted the brine in a reservoir after regeneration cycle is complete. The second nozzle replenishes brine by flowing water directly onto a salt material.